Experimental and Molecular Pathology

VOLUME 43, 1985

Editorial Board

Rajender Abraham
C. W. M. Adams
Kevin D. Barron
Klaus G. Bensch
Ramzi S. Cotran
Nahum J. Duker
John L. Farber
Jack C. Geer
Michael A. Gerber
Antonio M. Gotto, Jr.
Joe W. Grisham
Rolla B. Hill
William Hollander
Richard D. Irons
Robert B. Jennings
David Kritchevsky
David Lawrence
Henry C. McGill
Guido Majno
Joseph L. Melnick
Fujio Numano
Rudolfo D. Paoletti
Ruy Peréz-Tamayo
Theodore Peters, Jr.
M. James Phillips
Abel Robertson
Paul S. Roheim
Russell Ross
Gordon H. Sato
Colin J. Schwartz
Bruno Silvestrini
Edward A. Smuckler
Richard W. St. Clair
Jack P. Strong

Editors

Frederick Coulston

Wilbur A. Thomas

Managing Editor

Kyu Taik Lee

Associate Editor

Robert M. O'Neal

ACADEMIC PRESS, INC.

(Harcourt Brace Jovanovich, Publishers)

San Diego Orlando New York Austin London
Montreal Sydney Tokyo Toronto

Copyright © 1985 by Academic Press, Inc.
All rights reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (27 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1985 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0014-4800/85 $3.00

MADE IN THE UNITED STATES OF AMERICA

CONTENTS OF VOLUME 43

NUMBER 1, AUGUST 1985

TAPIO HALME, TIMO SAVUNEN, HEIKKI AHO, TIMO VIHERSAARI, AND RISTO PENTTINEN. Elastin and Collagen in the Aortic Wall: Changes in the Marfan Syndrome and Annuloaortic Ectasia 1

TOSHIO SATO, KIMIHIKO TAKUSAGAWA, NOBORU ASOO, AND KIYOSHI KONNO. Abnormal Cilia in the Small Airways of Mice Induced by Bleomycin 13

P. A. BERBERIAN AND M. W. JENISON. Arterial Prostaglandins and Lysosomal Function during Atherogenesis. I. Homogenates of Diet-Induced Atherosclerotic Aortas of Rabbit 22

P. A. BERBERIAN, M. W. JENISON, AND V. RODDICK. Arterial Prostaglandins and Lysosomal Function during Atherogenesis. II. Isolated Cells of Diet-Induced Atherosclerotic Aortas of Rabbit 36

FRANCESCO CAJONE AND ALDO BERNELLI-ZAZZERA. Soluble Factors of Protein Synthesis in Rat Liver during the Acute-Phase Reaction 56

WILLIAM LEWIS, KEVIN BECKENSTEIN, LAWRENCE SHAPIRO, AND SAUL PUSZKIN. Doxorubicin and Covalently Crosslinked Doxorubicin Derivatives Binding to Purified Cardiac Thin-Filament Proteins *in Vitro* 64

M. M. JAWEED, F. R. ALLEVA, G. J. HERBISON, J. F. DITUNNO, AND T. BALAZS. Muscle Atrophy and Histopathology of the Soleus in 6-Mercaptopurine-Treated Rats 74

S. IZAKI, L. HORNBECK, M. HIGUCHI, K. FUKUYAMA, W. L. EPSTEIN, S. TOKAIRIN, AND O. MATSUO. Detection of Granuloma-Associated Plasminogen Activator in Experimental Murine Schistosomiasis 82

THEODORE M. HOLLIS, JOHN A. KERN, NED A. ENEA, AND ANDREW J. COSGAREA. Changes in Plasma Histamine Concentration in the Streptozotocin-Diabetic Rat 90

R. MARGARETA MÜLLER, GEMMA A. J. KUIJPERS, ALICJA BARDON, OVE CEDER, AND GODFRIED M. ROOMANS. The Chronically Pilocarpine-Treated Rat in the Study of Cystic Fibrosis: Investigations on Submandibular Gland and Pancreas 97

STANLEY M. LEE AND ULRICH F. MICHAEL. The Protective Effect of Nitrendipine on Gentamicin Acute Renal Failure in Rats 107

HERSCHEL SIDRANSKY, ELIZABETH ROBINSON, AND ETHEL VERNEY. Hepatic Ornithine Decarboxylase Activity in the Rat as Influenced by Retinyl Acetate and Ethanol or Tryptophan 115

SEYMOUR LEVINE. Postinflammatory Increase of Absorption from Peritoneal Cavity into Lymph Nodes: Particulate and Oily Inocula 124

KAREN M. WICKLINE AND VERNON W. FISCHER. Incorporation of [^{3}H]Thymidine into Myocardial Capillary Cells in Streptozotocin-Diabetic Rats 135

ANNE M. VON EULER, OVE CEDER, HANS KOLLBERG, AND GODFRIED M. ROOMANS. Effect of Chronic Treatment with Cystic Fibrosis Fibroblast Medium on Rat Submandibular Gland Acinar Cells 142

NUMBER 2, OCTOBER 1985

TIBOR KERÉNYI, BRUNO VOSS, JÜRGEN RAUTERBERG, HANS-GEORG FROMME, HARRY JELLINEK, AND WERNER HEINRICH HAUSS. Connective Tissue Proteins on the Injured Endothelium of the Rat Aorta 151

M. ZAMIRUL HUSSAIN, SHRI N. GIRI, AND RAJENDRA S. BHATNAGAR. Poly(ADP-Ribose) Synthetase Activity during Bleomycin-Induced Lung Fibrosis in Hamsters 162

S. DESSÌ, C. CHIODINO, B. BATETTA, E. LACONI, C. ENNAS, AND P. PANI. Hexose Monophosphate Shunt and Cholesterol Synthesis in the Diabetic and Fasting States 177

A. N. OREKHOV, V. V. TERTOV, AND V. N. SMIRNOV. Lipids in Cells of Atherosclerotic and Uninvolved Human Aorta. II. Lipid Metabolism in Primary Culture 187

ALLURU S. REDDI. Metabolism of Glomerular Basement Membrane in Normal, Hypophysectomized, and Growth-Hormone-Treated Diabetic Rats 196

SUSAN HAYWOOD, MICHAEL LOUGHRAN, AND ROGER M. BATT. Copper Toxicosis and Tolerance in the Rat. III. Intracellular Localization of Copper in the Liver and Kidney 209

N. S. GREENHILL, M. R. PRESLAND, K. M. ROGERS, AND W. E. STEHBENS. X-Ray Microanalysis of Mineralized Matrix Vesicles of Experimental Saccular Aneurysms 220

JIYE SONG, JAROSLAV STASTNY, EGIL FOSSLIEN, AND ABEL L. ROBERTSON, JR. Effect of Aging on Human Aortic Protein Composition. I. One-Dimensional Polyacrylamide Gel Electrophoretic Analysis of Tissue Extracts 233

KEI-ICHI HIRAI, HANSPETER WITSCHI, AND MICHEL G. CÔTÉ. Mitochondrial Injury of Pulmonary Alveolar Epithelial Cells in Acute Paraquat Intoxication 242

TH. HENDRIKS, W. L. E. M. HESP, A. A. KLOMPMAKERS, E. J. C. LUBBERS, AND H. H. M. DE BOER. Solubility of Tissue Hydroxyproline in Experimental Intestinal Anastomoses 253

GENEVIÈVE CORRAZE, CHRISTIANE LACOMBE, AND MARYSE NIBBELINK. Effect of Dietary Restriction on Cholesterol Biosynthesis in the Liver and the Intestine of Cholesterol-Fed Rabbits 260

ROBERT A. MITCHELL, JACQUELINE S. PARTIN, EDGARDO L. ARCINUE, JOHN C. PARTIN, MICHAL L. RAM, AND ASHOK P. SARNAIK. Prognosis and Diagnosis of Reye Syndrome by Discriminant Analysis 268

MICHAEL J. P. LAWMAN, MICHAEL D. P. BOYLE, ADRIAN P. GEE, AND MICHAEL YOUNG. Nerve Growth Factor Accelerates the Early Cellular Events Associated with Wound Healing 274

NUMBER 3, DECEMBER 1985

P. VALERI, M. PALMERY, B. TITA, AND B. SILVESTRINI. Investigations on the Ocular Pharmacokinetics of Bendazac in Rabbits 283

G. M. FISCHER, R. I. BASHEY, H. ROSENBAUM, AND C. R. LYTTLE. A Possible Mechanism in Arterial Wall for Mediation of Sex Difference in Atherosclerosis 288

JIYE SONG, JAROSLAV STASTNY, EGIL FOSSLIEN, AND ABEL L. ROBERTSON, JR. Effect of Aging on Human Aortic Protein Composition. II. Two-Dimensional Polyacrylamide Gel Electrophoretic Analysis 297

R. CLARK LANTZ, KAREN BIRCH, DAVID E. HINTON, AND ROBERT BURRELL. Morphometric Changes of the Lung Induced by Inhaled Bacterial Endotoxin 305

DIANNE M. CREASY, JOHN C. FLYNN, TIM J. B. GRAY, AND WILLIAM H. BUTLER. A Quantitative Study of Stage-Specific Spermatocyte Damage following Administration of Ethylene Glycol Monomethyl Ether in the Rat 321

A. S. DAOUD, A. S. FRANK, J. JARMOLYCH, W. T. FRANCO, AND K. E. FRITZ. Ultrastructural and Elemental Analysis of Calcification of Advanced Swine Aortic Atherosclerosis 337

A. FRANCINE TRYKA, HANSPETER WITSCHI, AND ROBERT C. LINDENSCHMIDT. Progressive Pulmonary Fibrosis in Rats: a Biochemical, Cell Kinetic, and Morphologic Analysis 348

SUBRAMANIAN GUNASEKARAN, STEPHEN RAYLE, PHILIP WEINSTEIN, JAROSLAV J. VOSTAL, AND MILOS CHVAPIL. Therapeutic Effects of Disulfiram in Spinal Cord Contusion of Rabbits 359

DING WANG, ETHEL VERNEY, AND HERSCHEL SIDRANSKY. Protective Effect of Tryptophan and Cysteine against Carbon Tetrachloride-Induced Liver Injury 364

MOISÉS SELMAN, MARTHA MONTAÑO, IRMGARD MONTFORT, AND RUY PÉREZ-TAMAYO. A New Model of Diffuse Interstitial Pulmonary Fibrosis in the Rat 375

MOISÉS SELMAN, MARTHA MONTAÑO, IRMGARD MONTFORT, AND RUY PÉREZ-TAMAYO. The Duration of the Pulmonary Paraquat Toxicity—Enhancement Effect of O_2 in the Rat 388

AGNETA OSKARSSON AND BRUCE A. FOWLER. Effects of Lead Inclusion Bodies on Subcellular Distribution of Lead in Rat Kidney: The Relationship to Mitochondrial Function 397

AGNETA OSKARSSON AND BRUCE A. FOWLER. Effects of Lead on the Heme Biosynthetic Pathway in Rat Kidney 409

AUTHOR INDEX FOR VOLUME 43 418

CUMULATIVE SUBJECT INDEX FOR VOLUMES 42–43 420